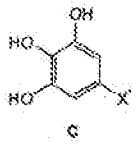
AMENDMENTS TO THE CLAIMS: 10/593,259 — 2/17/04

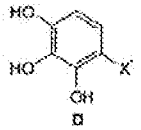
This listing of claims will replace all prior versions and listings of claims in the application:

Claims 1 - 10. (canceled)

11. (new) A pharmaceutical composition comprising at least one compound of formula (C) or (D) and a pharmaceutically acceptable carrier which is useful in a medicine

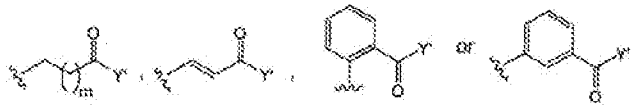


C



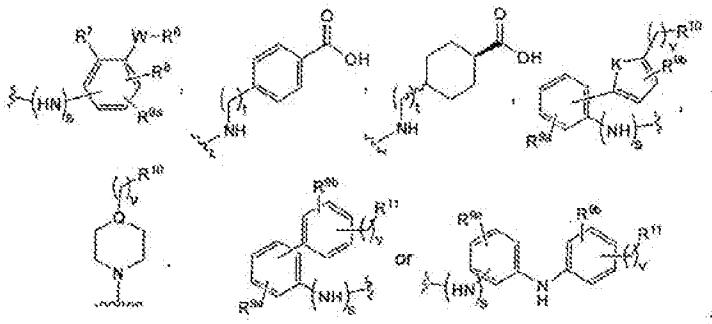
D

wherein -X' is



m is 0 or 1;

Y' is



Q is CH or N;

R^6 is CO_2H, CO_2Alkyl, CO_2Aryl, CO_2NH_2, $CO_2Aralkyl$, SO_3H, SO_2NH_2, $PO(OH)_2$, 1-H-tetrazolyl, CHO, $COCH_3$, CH_2OH, NH_2, NHAlkyl, N(Alkyl)Alkyl', OCH_3, CH_2OCH_3, SH, F, Cl, Br, I, CH_3, CH_2CH_3, CN, or CF_3;

R^7, independently from R^6, is H, CH_3, CH_2CH_3, CF_3, F, Cl, Br, I, CN, or NO_2;

R^8, independently from R^6 and R^7, is H, CH_3, CH_2CH_3, CF_3, F, Cl, Br, I, CN, NO_2, or R^6;

R^{8a} is H, NO_2, CF_3, F, Cl, Br, I, CN, CH_3, OCH_3, SH, or NH_2;

R^{8b}, independently from R^{8a}, is H, NO_2, CF_3, F, Cl, Br, I, CN, CH_3, OCH_3, SH, or NH_2;

Author Search

```
=> FILE HCAPLUS
FILE 'HCAPLUS' ENTERED AT 12:42:02 ON 16 APR 2009
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```



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FILE COVERS 1907 - 16 Apr 2009  VOL 150 ISS 16
FILE LAST UPDATED: 15 Apr 2009  (20090415/ED)

HCAplus now includes complete International Patent Classification (IPC)
reclassification data for the third quarter of 2008.

CAS Information Use Policies apply and are available at:

http://www.cas.org/legal/infopolicy.html

This file contains CAS Registry Numbers for easy and accurate
substance identification.
'OBI' IS DEFAULT SEARCH FIELD FOR 'HCAPLUS' FILE

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L28             STR
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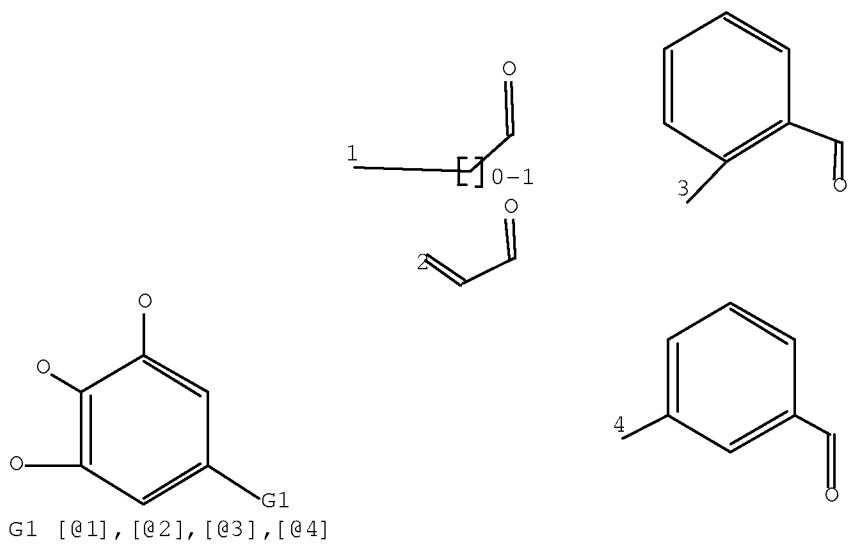

G1 [@1],[@2],[@3],[@4]

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L34             STR

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L38           8 SEA FILE=HCAPLUS SPE=ON  ABB=ON  PLU=ON  L36
L39          24 SEA FILE=HCAPLUS SPE=ON  ABB=ON  PLU=ON  KRANICH R?/AU
L40          25 SEA FILE=HCAPLUS SPE=ON  ABB=ON  PLU=ON  AYDT E?/AU
L41           2 SEA FILE=HCAPLUS SPE=ON  ABB=ON  PLU=ON  (L39 OR L40) AND L38


=> D STAT QUE L52
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L40          25 SEA FILE=HCAPLUS SPE=ON  ABB=ON  PLU=ON  AYDT E?/AU
L48             STR


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L52           2 SEA FILE=HCAPLUS SPE=ON  ABB=ON  PLU=ON  (L39 OR L40) AND L51


=> FILE WPIX
FILE 'WPIX' ENTERED AT 12:42:19 ON 16 APR 2009
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FILE LAST UPDATED:          9 APR 2009   <20090409/UP>
MOST RECENT UPDATE:           200923      <200923/DW>
DERWENT WORLD PATENTS INDEX SUBSCRIBER FILE, COVERS 1963 TO DATE
>>> Now containing more than 1.3 million chemical structures in DCR <<<

>>> IPC and US National Classifications  have been updated
    with reclassifications to the end of 2008.
    ECLA, F-Term and FI-Term classifications are complete
    to the end of 2008.
    No update date (UP) has been created for the reclassified
    documents, but they can be identified by
    specific update codes (see HELP CLA for details)<<<

FOR A COPY OF THE DERWENT WORLD PATENTS INDEX STN USER GUIDE,
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FOR DETAILS OF THE PATENTS COVERED IN CURRENT UPDATES, SEE
http://scientific.thomsonreuters.com/support/patents/coverage/latestupdates/

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http://www.stn-international.com/DWPIAnaVist2_0608.html

>>> HELP for European Patent Classifications see HELP ECLA, HELP ICO <<<


'BI,ABEX' IS DEFAULT SEARCH FIELD FOR 'WPIX' FILE

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L48             STR


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L55           1 SEA FILE=WPIX SPE=ON  ABB=ON  PLU=ON  L54/DCR
L56           1 SEA FILE=WPIX SPE=ON  ABB=ON  PLU=ON  (L39 OR L40) AND L55


=> DUP REM L41 L52 L56
FILE 'HCAPLUS' ENTERED AT 12:42:30 ON 16 APR 2009
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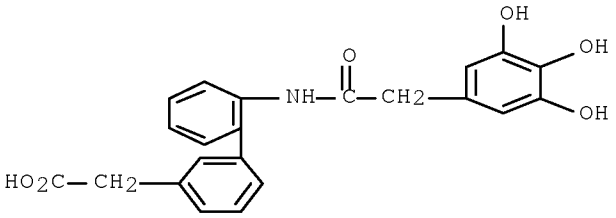
COPYRIGHT (C) 2009 THOMSON REUTERS
PROCESSING COMPLETED FOR L41
PROCESSING COMPLETED FOR L52
PROCESSING COMPLETED FOR L56
L58           2 DUP REM L41 L52 L56 (3 DUPLICATES REMOVED)
                ANSWERS '1-2' FROM FILE HCAPLUS

=> D IBIB ED ABS HITSTR 1-2

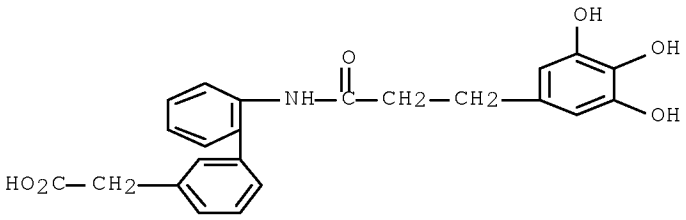
L58  ANSWER 1 OF 2  HCAPLUS  COPYRIGHT 2009 ACS on STN DUPLICATE 1
ACCESSION NUMBER:         2007:172184  HCAPLUS  Full-text
DOCUMENT NUMBER:          146:421689
TITLE:                    Rational Design of Novel, Potent Small Molecule
                          Pan-Selectin Antagonists
AUTHOR(S):                Kranich, Remo; Busemann, Anke S.; Bock,
                          Daniel; Schroeter-Maas, Sabine; Beyer, Diana;
                          Heinemann, Bo; Meyer, Michael; Schierhorn, Katrin;
                          Zahlten, Rainer; Wolff, Gerhard; Aydt, Ewald
                          M.
CORPORATE SOURCE:         Revotar Biopharmaceuticals AG, Hennigsdorf, 16761,
                          Germany
SOURCE:                   Journal of Medicinal Chemistry (2007), 50(6),
                          1101-1115
                          CODEN: JMCMAR; ISSN: 0022-2623
PUBLISHER:                American Chemical Society
DOCUMENT TYPE:            Journal
LANGUAGE:                 English
OTHER SOURCE(S):          CASREACT 146:421689
ED   Entered STN:  16 Feb 2007
AB    The first results of a rational hit-finding strategy to design novel small
      mol. antiinflammatory drugs targeting selectins, a family of three cellular
      adhesion mols., are described.  Based on recent progress in understanding of
      mol. interaction between selectins and their natural ligands as well as
      progress in clin. development of synthetic antagonists, such as bimosiamose
      (TBC1269), this study was initiated to discover small mol. selectin
      antagonists with improved pharmacol. properties. Considering bimosiamose as
      template structure, a ligand-based approach followed by focused chemical
      synthesis has been applied to yield novel synthetic small mols. (MWr < 500)
      with a trihydroxybenzene motif, bearing neither peptidic nor glycosidic
      components, with nanomolar in vitro activity.  Biol. evaluation involves two
      kinds of in vitro assays, a static mol. binding assay, and a dynamic HL-60
      cell attachment assay.  As compared to controls, the novel compds. showed
      improved biol. in vitro activity both under static and dynamic conditions.
```

IT 864518-39-8P 864518-41-2P 864518-42-3P
864518-44-5P 864518-49-0P 864518-51-4P
864518-55-8P 864518-56-9P 864518-57-0P
864518-58-1P 864518-66-1P 864518-67-2P
934176-39-3P 934176-41-7P 934176-54-2P
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)
(preparation of small mols. with a trihydroxybenzene motif as pan-selectin antagonists and potential antiinflammatory agents)

RN 864518-39-8 HCAPLUS
CN [1,1'-Biphenyl]-3-acetic acid, 2'-[[2-(3,4,5-trihydroxyphenyl)acetyl]amino]- (CA INDEX NAME)



RN 864518-41-2 HCAPLUS
CN [1,1'-Biphenyl]-3-acetic acid, 2'-[[1-oxo-3-(3,4,5-trihydroxyphenyl)propyl]amino]- (CA INDEX NAME)



RN 864518-42-3 HCAPLUS
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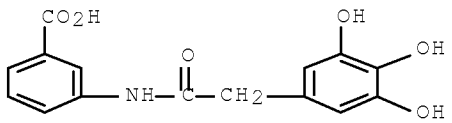
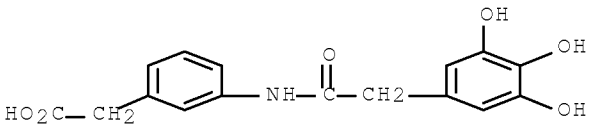


RN 864518-44-5 HCAPLUS
CN Benzeneacetic acid, 3-[[2-(3,4,5-trihydroxyphenyl)acetyl]amino]- (CA INDEX NAME)



RN 864518-49-0 HCAPLUS
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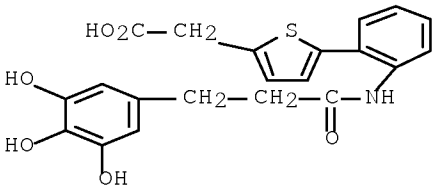
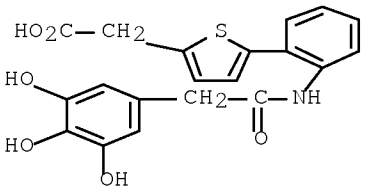
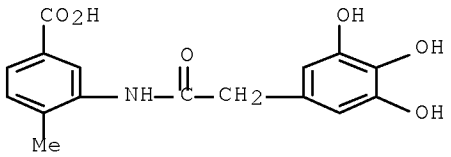


RN 864518-51-4 HCAPLUS
CN 2-Thiopheneacetic acid, 5-[2-[[2-(3,4,5-trihydroxyphenyl)acetyl]amino]phenyl]- (CA INDEX NAME)



RN 864518-55-8 HCAPLUS
CN Benzoic acid, 4-methyl-3-[[2-(3,4,5-trihydroxyphenyl)acetyl]amino]- (CA INDEX NAME)



RN 864518-56-9 HCAPLUS
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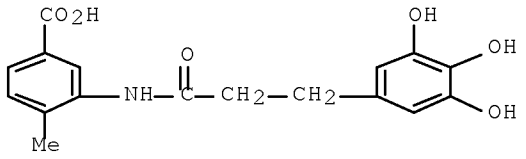

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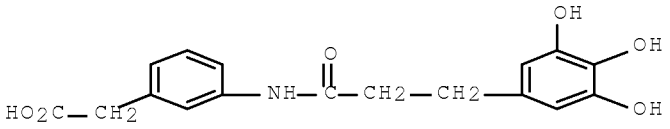

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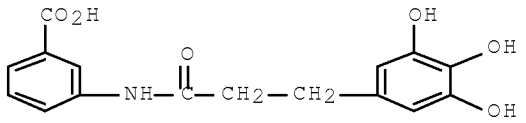
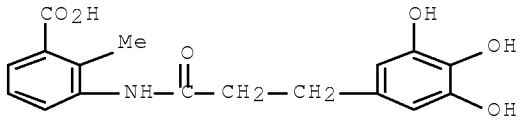
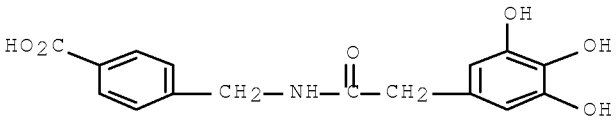


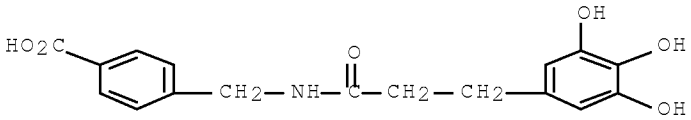
RN 864518-66-1 HCAPLUS
CN Benzoic acid, 2-methyl-3-[[1-oxo-3-(3,4,5-trihydroxyphenyl)propyl]amino]- (CA INDEX NAME)



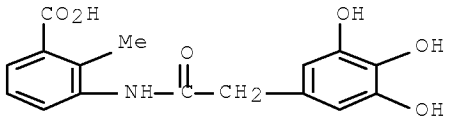
RN 864518-67-2 HCAPLUS
CN Benzoic acid, 4-[[[2-(3,4,5-trihydroxyphenyl)acetyl]amino]methyl]- (CA INDEX NAME)



RN 934176-39-3 HCAPLUS
CN Benzoic acid, 4-[[[1-oxo-3-(3,4,5-trihydroxyphenyl)propyl]amino]methyl]- (CA INDEX NAME)

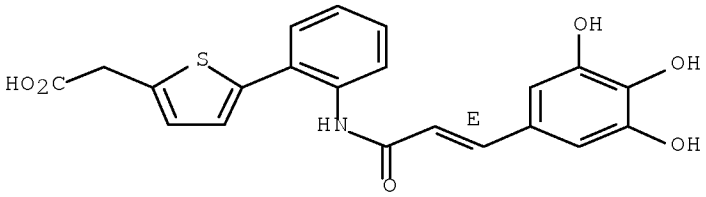


RN 934176-41-7 HCAPLUS
CN Benzoic acid, 2-methyl-3-[[2-(3,4,5-trihydroxyphenyl)acetyl]amino]- (CA INDEX NAME)



RN 934176-54-2 HCAPLUS
CN 2-Thiopheneacetic acid, 5-[2-[[(2E)-1-oxo-3-(3,4,5-trihydroxyphenyl)-2-propen-1-yl]amino]phenyl]- (CA INDEX NAME)

Double bond geometry as shown.



REFERENCE COUNT: 83 THERE ARE 83 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L58 ANSWER 2 OF 2 HCAPLUS COPYRIGHT 2009 ACS on STN DUPLICATE 2
ACCESSION NUMBER: 2005:1020451 HCAPLUS Full-text
DOCUMENT NUMBER: 143:305710
TITLE: Non-glycosylated/-glycosidic/-peptidic small molecule selectin inhibitors for the treatment of inflammatory

disorders

INVENTOR(S): Kranich, Remo; Aydt, Ewald Mirko

PATENT ASSIGNEE(S): Revotar Biopharmaceuticals A.-G., Germany

SOURCE: Eur. Pat. Appl., 43 pp.
CODEN: EPXXDW

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 1577289	A1	20050921	EP 2004-6461	20040318
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WO 2005090284	A1	20050929	WO 2005-EP2920	20050318
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
EP 1732882	A1	20061220	EP 2005-716209	20050318
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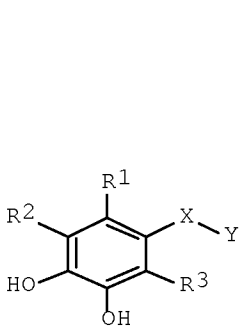
JP 2007529462	T	20071025	JP 2007-503297	20050318
US 20080249107	A1	20081009	US 2007-593259	20070726

PRIORITY APPLN. INFO.: EP 2004-6461 A 20040318
WO 2005-EP2920 W 20050318

OTHER SOURCE(S): CASREACT 143:305710; MARPAT 143:305710

ED Entered STN: 22 Sep 2005

GI



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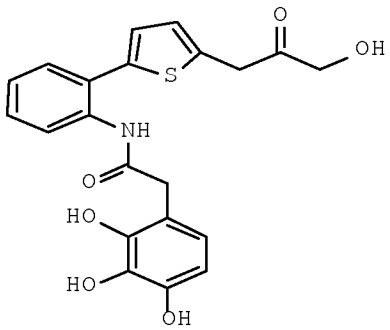
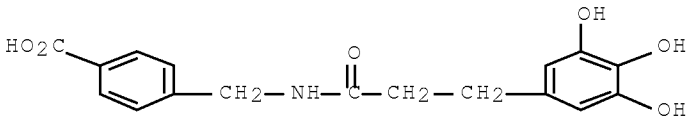


II

AB The invention relates to compds. I [R2 = OH, R3 = H, R1 = H, CN, NO2, CF3, F, Cl, Br, I, Me (groups Q1); R3 = OH, R2 = H, R1 = groups Q1 or Et, Pr, iPr, Bu,

t-Bu, Ph, thienyl, furyl, thiazolyl (groups Q2); R3 = OH, R1 = H, R2 = groups Q2; X = -E0-1CONH(CH2)1-2CO-, where E = NH or (CH2)1-3NH, -E0-1SO2NH(CH2)1-2(NH)0-1-, -(CH2)1-8(NH)0-1CO-, substituted phenylene- or 1,4-piperazinediyl-(NH)0-1CO-, etc.; Y = substituted Ph, anilino, piperidino, pyrrolidinyl, etc.] or their pharmaceutically-acceptable salts, esters, amides or prodrugs which can be be used to modulate the in-vitro and in-vivo binding processes mediated by E-, P- or L-selectin binding. Thus, compound II was prepared from 2-thiopheneacetic acid, 2-aminobenzeneboronic acid, and 2,3,4-trimethoxyphenylacetic acid and assayed for its ability to inhibit the binding of E-, P-, and L-selectin chimeric mols. to sLe and tyrosinesulfate residues linked to a polymeric matrix as a PSGL-1 substitute (46.5, 92.4, and 81.9 % inhibition, resp.).

IT 934176-39-3
RL: PRPH (Prophetic)
(Non-glycosylated/-glycosidic/-peptidic small molecule selectin inhibitors for the treatment of inflammatory disorders)
RN 934176-39-3 HCAPLUS
CN Benzoic acid, 4-[[[1-oxo-3-(3,4,5-trihydroxyphenyl)propyl]amino]methyl]- (CA INDEX NAME)



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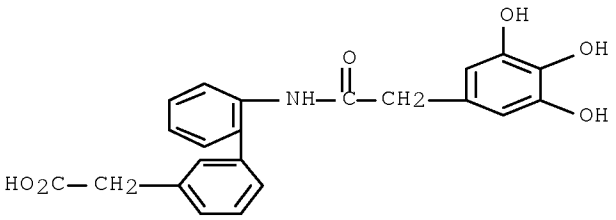
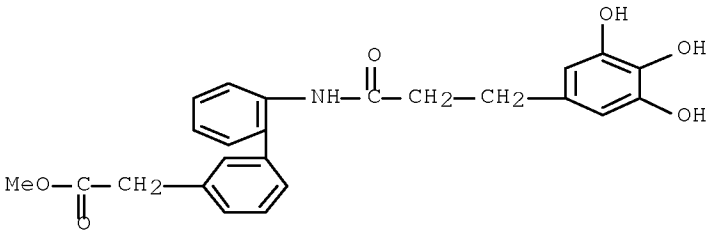
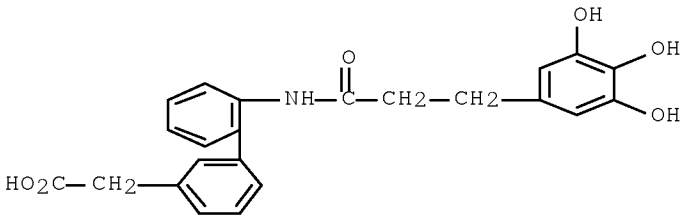
864518-42-3P 864518-44-5P 864518-47-8P
864518-49-0P 864518-51-4P 864518-55-8P
864518-56-9P 864518-57-0P 864518-58-1P
864518-66-1P 864518-67-2P
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)
(preparation of non-glycosylated/-glycosidic/-peptidic small mol. selectin inhibitors for treatment of inflammatory disorders)
RN 864518-39-8 HCAPLUS
CN [1,1'-Biphenyl]-3-acetic acid, 2'-[[2-(3,4,5-trihydroxyphenyl)acetyl]amino]- (CA INDEX NAME)



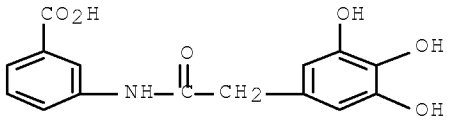
RN 864518-40-1 HCAPLUS
CN [1,1'-Biphenyl]-3-acetic acid, 2'-[[1-oxo-3-(3,4,5-trihydroxyphenyl)propyl]amino]-, methyl ester (CA INDEX NAME)



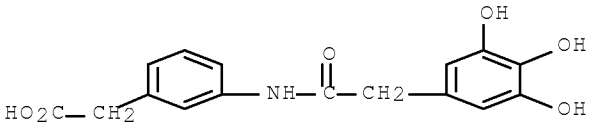
RN 864518-41-2 HCAPLUS
CN [1,1'-Biphenyl]-3-acetic acid, 2'-[[1-oxo-3-(3,4,5-trihydroxyphenyl)propyl]amino]- (CA INDEX NAME)



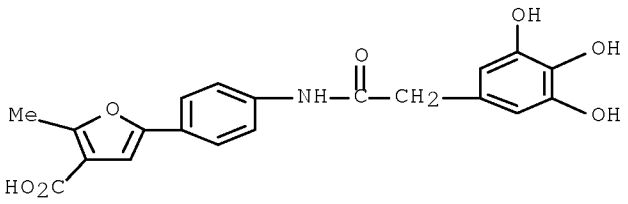
RN 864518-42-3 HCAPLUS
CN Benzoic acid, 3-[[2-(3,4,5-trihydroxyphenyl)acetyl]amino]- (CA INDEX NAME)



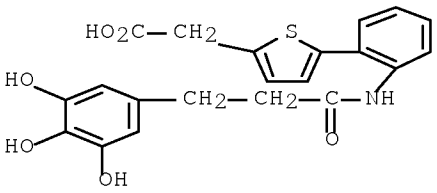
RN 864518-44-5 HCAPLUS
CN Benzeneacetic acid, 3-[[2-(3,4,5-trihydroxyphenyl)acetyl]amino]- (CA INDEX NAME)



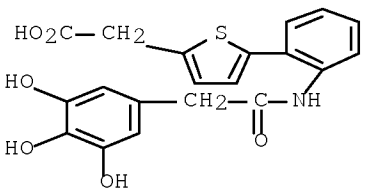
RN 864518-47-8 HCAPLUS
CN 3-Furancarboxylic acid, 2-methyl-5-[4-[[2-(3,4,5-trihydroxyphenyl)acetyl]amino]phenyl]- (CA INDEX NAME)



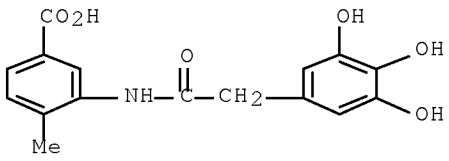
RN 864518-49-0 HCAPLUS
CN 2-Thiopheneacetic acid, 5-[2-[[1-oxo-3-(3,4,5-trihydroxyphenyl)propyl]amino]phenyl]- (CA INDEX NAME)



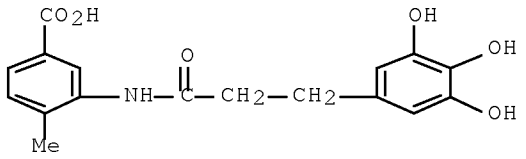
RN 864518-51-4 HCAPLUS
CN 2-Thiopheneacetic acid, 5-[2-[[2-(3,4,5-trihydroxyphenyl)acetyl]amino]phenyl]- (CA INDEX NAME)



RN 864518-55-8 HCAPLUS
CN Benzoic acid, 4-methyl-3-[[2-(3,4,5-trihydroxyphenyl)acetyl]amino]- (CA INDEX NAME)



RN 864518-56-9 HCAPLUS
CN Benzoic acid, 4-methyl-3-[[1-oxo-3-(3,4,5-trihydroxyphenyl)propyl]amino]- (CA INDEX NAME)



RN 864518-57-0 HCAPLUS
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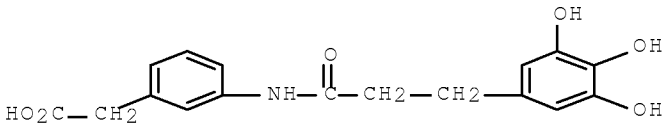
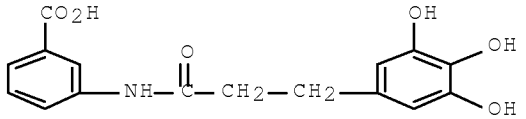
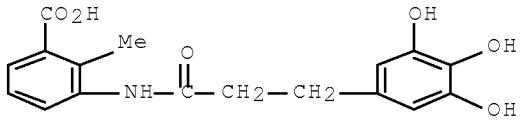


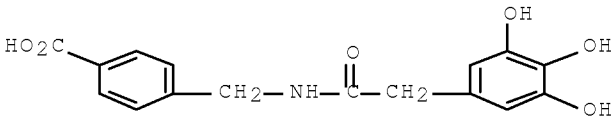
RN 864518-58-1 HCAPLUS
CN Benzoic acid, 3-[[1-oxo-3-(3,4,5-trihydroxyphenyl)propyl]amino]- (CA INDEX NAME)



RN 864518-66-1 HCAPLUS
CN Benzoic acid, 2-methyl-3-[[1-oxo-3-(3,4,5-trihydroxyphenyl)propyl]amino]- (CA INDEX NAME)



RN 864518-67-2 HCAPLUS
CN Benzoic acid, 4-[[[2-(3,4,5-trihydroxyphenyl)acetyl]amino]methyl]- (CA INDEX NAME)



REFERENCE COUNT: 22 THERE ARE 22 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

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=> FILE HCAPLUS
FILE 'HCAPLUS' ENTERED AT 12:42:51 ON 16 APR 2009
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FILE COVERS 1907 - 16 Apr 2009  VOL 150 ISS 16
FILE LAST UPDATED: 15 Apr 2009  (20090415/ED)

HCAplus now includes complete International Patent Classification (IPC)
reclassification data for the third quarter of 2008.

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'OBI' IS DEFAULT SEARCH FIELD FOR 'HCAPLUS' FILE

=> D STAT QUE L42
L28             STR
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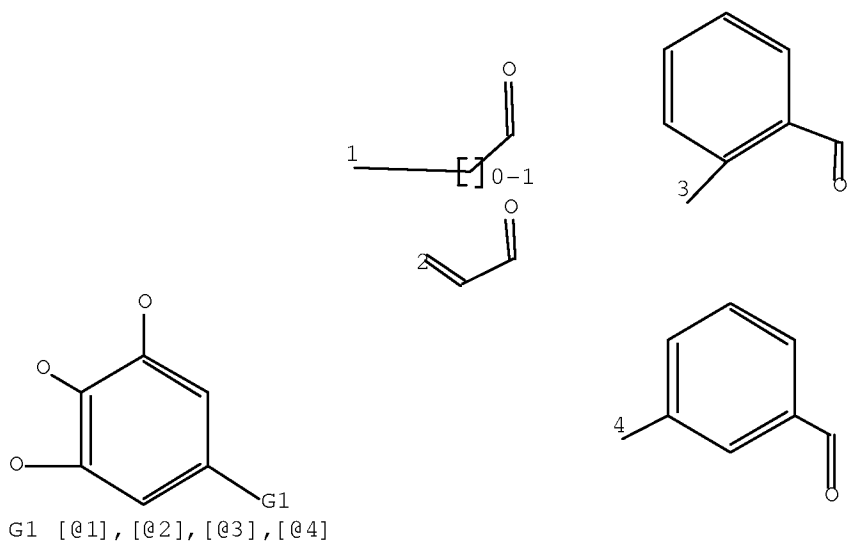

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Structure attributes must be viewed using STN Express query preparation.
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L34             STR

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY -  AVAILABLE VIA OFFLINE PRINT *

Structure attributes must be viewed using STN Express query preparation.
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L38            8 SEA FILE=HCAPLUS SPE=ON  ABB=ON  PLU=ON  L36
L42            8 SEA FILE=HCAPLUS SPE=ON  ABB=ON  PLU=ON  L38 AND (PRY<=2007 OR
                 AY<=2007 OR PY<=2007)


=> S L42 NOT L41,L52
L59            6 L42 NOT (L41 OR L52)

=> FILE WPIX
FILE 'WPIX' ENTERED AT 12:43:10 ON 16 APR 2009
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FILE LAST UPDATED:           9 APR 2009   <20090409/UP>
MOST RECENT UPDATE:            200923      <200923/DW>
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>>> IPC and US National Classifications  have been updated
    with reclassifications to the end of 2008.
    ECLA, F-Term and FI-Term classifications are complete
    to the end of 2008.
    No update date (UP) has been created for the reclassified
    documents, but they can be identified by
    specific update codes (see HELP CLA for details)<<<

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'BI,ABEX' IS DEFAULT SEARCH FIELD FOR 'WPIX' FILE

=> D STAT QUE L55
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* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY -  AVAILABLE VIA OFFLINE PRINT *

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=> DUP REM L59 L55
FILE 'HCAPLUS' ENTERED AT 12:43:23 ON 16 APR 2009
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FILE 'WPIX' ENTERED AT 12:43:23 ON 16 APR 2009

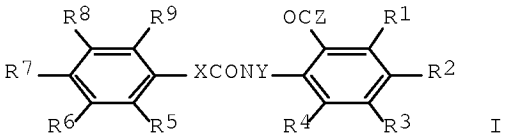
PROCESSING COMPLETED FOR L59
PROCESSING COMPLETED FOR L55
L60 7 DUP REM L59 L55 (0 DUPLICATES REMOVED)
ANSWERS '1-6' FROM FILE HCAPLUS
ANSWER '7' FROM FILE WPIX

=> D IBIB ED ABS HITSTR 1-6; D IBIB AB HITSTR 7

L60 ANSWER 1 OF 7 HCAPLUS COPYRIGHT 2009 ACS on STN
ACCESSION NUMBER: 1994:551295 HCAPLUS Full-text
DOCUMENT NUMBER: 121:151295
ORIGINAL REFERENCE NO.: 121:27209a,27212a
TITLE: Preparation of N-acylanthranilic acids as insecticides
INVENTOR(S): Blaakmeer, Anton; van Beek, Teris Andre; de Groot, Aede; van Loon, Joseph Johannes Antonius; Schoonhoven, Louis Mensse
PATENT ASSIGNEE(S): Rijkslandbouwuniversiteit Wageningen, Neth.
SOURCE: Neth. Appl., 17 pp.
CODEN: NAXXAN
DOCUMENT TYPE: Patent
LANGUAGE: Dutch
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
NL 9202078	A	19940616	NL 1992-2078	19921130 <--
PRIORITY APPLN. INFO.:			NL 1992-2078	19921130 <--

OTHER SOURCE(S): MARPAT 121:151295
ED Entered STN: 01 Oct 1994
GI



I

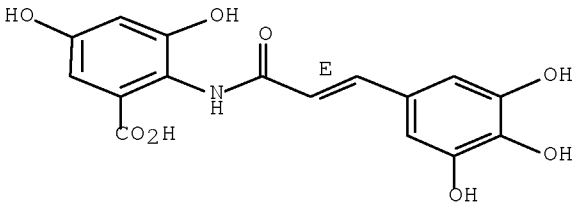
AB N-acylanthranilic acids I [R1-R9 = H, halo, alkyl, Ph, OH, alkoxy, acyloxy, carbohydrate residue; 2 adjacent groups of R1-R9 = alkylenedioxy; X = bond, (substituted) alkylene, alkenylene, or alkynylene; Y = H, alkyl; Z = H, Me, OH, alkoxy, alkylthio, (substituted) amino] and their salts are prepared for use in control of Lepidoptera, especially Pieris, on plants. Thus, miriamide Me ester (II) (3 μg/leaf) strongly inhibited oviposition by P. brassicae on leaves of Brussels sprouts. II was prepared by 2-nitration of Me 3,5-

dimethoxybenzoate, reduction to the amine, condensation with 3,4,5-trimethoxycinnamic acid chloride, and demethylation with BBr3.

IT 153698-89-6P, Miriamide 157497-39-7P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of, as insecticide for Pieris control on plants)

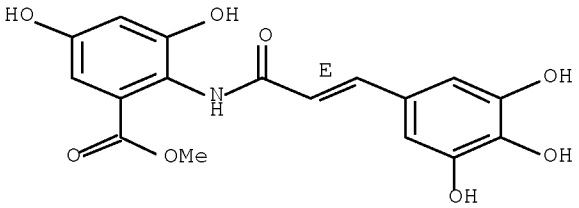
RN 153698-89-6 HCAPLUS
CN Benzoic acid, 3,5-dihydroxy-2-[[1-oxo-3-(3,4,5-trihydroxyphenyl)-2-propenyl]amino]-, (E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



RN 157497-39-7 HCAPLUS
CN Benzoic acid, 3,5-dihydroxy-2-[[1-oxo-3-(3,4,5-trihydroxyphenyl)-2-propenyl]amino]-, methyl ester, (E)- (9CI) (CA INDEX NAME)

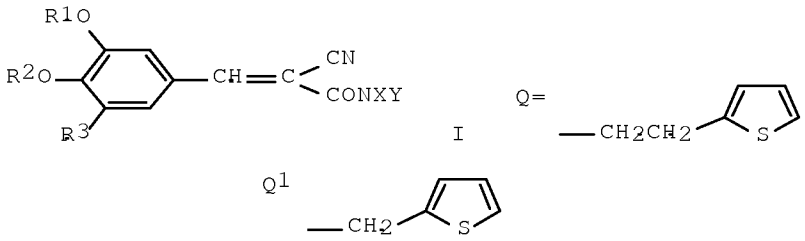
Double bond geometry as shown.



L60 ANSWER 2 OF 7 HCAPLUS COPYRIGHT 2009 ACS on STN
ACCESSION NUMBER: 1995:346839 HCAPLUS Full-text
DOCUMENT NUMBER: 122:105410
ORIGINAL REFERENCE NO.: 122:19827a,19830a
TITLE: Preparation of caffeic acid amide derivatives as 12-lipoxygenase inhibitors
INVENTOR(S): Matsuki, Shinsuke; Kiso, Yoshinobu; Cho, Hidetsura; Tamaoka, Mie; Murota, Seiitsu; Morita, Ikuo
PATENT ASSIGNEE(S): Suntory Ltd, Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 40 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 06247850	A	19940906	JP 1993-57991	19930224 <--

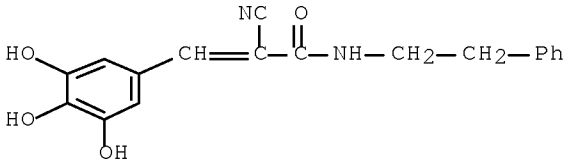
PRIORITY APPLN. INFO.: JP 1993-57991 19930224 <--
OTHER SOURCE(S): MARPAT 122:105410
ED Entered STN: 11 Feb 1995
GI



AB Caffeic acid amide derivs. [I; R1, R2 = H, COR4, C(S)R5, PO(OR6)OR7, or R1R2 forms a 5-membered ring; wherein R4 = C1-6 alkyl or alkoxy, C6-10 aryloxy, c712 aralkyloxy, substituted amino, cyclic amino; R6, R7 = C1-6 alkyl, C6-10 aryl, C7-12 aralkyl, alkali metal; R3 = OR1, OR2, H, OH, O2CR4, OC(S)R5, PO(OR6)OR7, wherein R1, R2, R4 - R7 = same as above; X, Y = H, (un)substituted C1-6 alkyl, C6-10 aryl, C7-12 aralkyl, C7-12 aralkyloxy, C7-12 arylalkenyl, C7-12 aryloxyalkenyl, heterocyclyl, or heterocyclylalkyl, or XY forms N-containing heterocyclic ring; provided that both X = Y ≠ H] and pharmacol. acceptable salts thereof, useful for the treatment of arteriosclerosis, ischemic heart diseases, etc., are prepared A medicament for the treatment and prevention of diseases caused by unusual rise in the activity of 12-lipoxygenase, e.g. atrophy of brain blood vessel, allergy, inflammation, cancer metastasis, asthma, normal psoriasis, and nephritis, contains 12-lipoxygenase inhibitor or pharmacol. acceptable salts thereof as the active ingredient. Thus, a solution of 2.40 g 3,4-dihydroxybenzaldehyde in DMF was added to a solution of N-[2-(2-thienyl)ethyl]-2-cyanoacetamide in DMF and benzene followed by adding a few drops of piperidine and the resulting mixture was refluxed for 1 h to give 86% I (R1 = R2 = R3 = X = H, Y = Q) (II). In 12-lipoxygenase inhibition assay, II and I (R1 = R2 = R3 = X = H, Y = Q1) at 10-6 M in vitro inhibited the production of 12-HETE in rat platelet rich plasma,by 77.2 and 80.1%, resp.

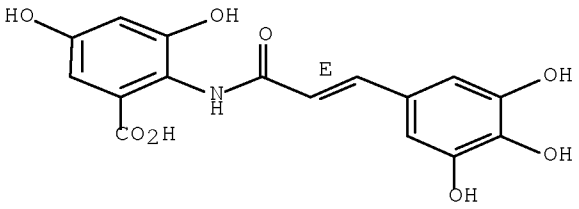
IT 160807-25-0P
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation of caffeic acid amide derivs. as 12-lipoxygenase inhibitors)

RN 160807-25-0 HCAPLUS
CN 2-Propenamide, 2-cyano-N-(2-phenylethyl)-3-(3,4,5-trihydroxyphenyl)- (CA INDEX NAME)



L60 ANSWER 3 OF 7 HCAPLUS COPYRIGHT 2009 ACS on STN
ACCESSION NUMBER: 1994:575699 HCAPLUS Full-text
DOCUMENT NUMBER: 121:175699
ORIGINAL REFERENCE NO.: 121:31827a,31830a
TITLE: Structure-activity relationship of isolated avenanthramide alkaloids and synthesized related compounds as oviposition deterrents for Pieris brassicae
AUTHOR(S): Blaakmeer, Anton; van der Wall, Dick; Stork, Andre; van Beek, Teris A.; de Groot, Aede; van Loon, Joop J. A.
CORPORATE SOURCE: Dep. Org. Chem., Wageningen Agricultural Univ., Wageningen, NL-6703 HB, Neth.
SOURCE: Journal of Natural Products (1994), 57(8), 1145-51
CODEN: JNPRDF; ISSN: 0163-3864
DOCUMENT TYPE: Journal
LANGUAGE: English
ED Entered STN: 15 Oct 1994
AB The structure-activity relation was investigated of compds. isolated from eggs of P. brassicae, the large white cabbage butterfly, and 8 synthesized related compds. as oviposition deterrents for this insect. The activity of all compds. was tested in a dual-choice bioassay. The 2 most active oviposition deterrents for P. brassicae were trans-2-[3-(4-hydroxyphenylproenoyl)amino]-3,5-dihydroxybenzoic acid and trans-2-[3-(3,4-dihydroxyphenylpropenoyl)amino]-3,5-dihydroxybenzoic acid. Among members of this compound class, alteration of the substituents of the cinnamic acid part of the mol. affected the oviposition deterrent activity more profoundly than other structural changes. Modification of the anthranilic acid part of the mol. resulted in lower activity.
IT 153698-89-6
RL: BIOL (Biological study)
(oviposition-deterring activity of, in white cabbage butterfly, structure in relation to)
RN 153698-89-6 HCAPLUS
CN Benzoic acid, 3,5-dihydroxy-2-[[1-oxo-3-(3,4,5-trihydroxyphenyl)-2-propenyl]amino]-, (E)- (9CI) (CA INDEX NAME)

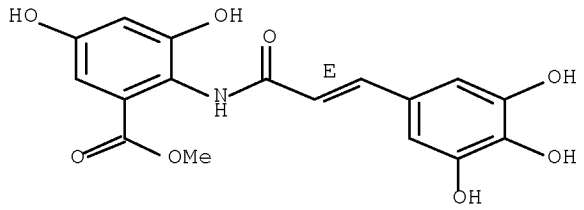
Double bond geometry as shown.



IT 157497-39-7P 157799-25-2P 157799-26-3P
157799-29-6P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation and oviposition-deterring activity of, in white cabbage butterfly, structure in relation to)
RN 157497-39-7 HCAPLUS

CN Benzoic acid, 3,5-dihydroxy-2-[[1-oxo-3-(3,4,5-trihydroxyphenyl)-2-propenyl]amino]-, methyl ester, (E)- (9CI) (CA INDEX NAME)

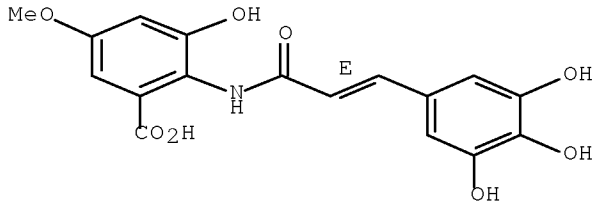
Double bond geometry as shown.



RN 157799-25-2 HCAPLUS

CN Benzoic acid, 3-hydroxy-5-methoxy-2-[[1-oxo-3-(3,4,5-trihydroxyphenyl)-2-propenyl]amino]-, (E)- (9CI) (CA INDEX NAME)

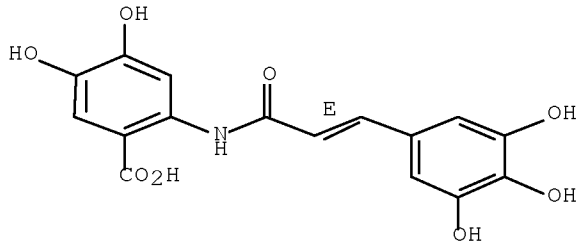
Double bond geometry as shown.



RN 157799-26-3 HCAPLUS

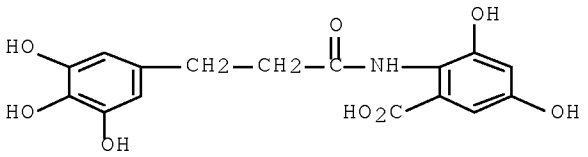
CN Benzoic acid, 4,5-dihydroxy-2-[[1-oxo-3-(3,4,5-trihydroxyphenyl)-2-propenyl]amino]-, (E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.

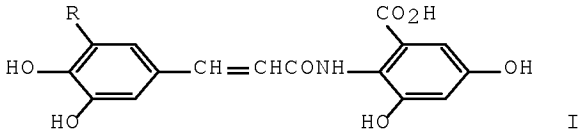


RN 157799-29-6 HCAPLUS

CN Benzoic acid, 3,5-dihydroxy-2-[[1-oxo-3-(3,4,5-trihydroxyphenyl)propyl]amino]- (CA INDEX NAME)



L60 ANSWER 4 OF 7 HCAPLUS COPYRIGHT 2009 ACS on STN
ACCESSION NUMBER: 1994:187464 HCAPLUS Full-text
DOCUMENT NUMBER: 120:187464
ORIGINAL REFERENCE NO.: 120:33037a,33040a
TITLE: Isolation, identification, and synthesis of miriamides, new host-markers from eggs of Pieris brassicae
AUTHOR(S): Blaakmeer, Anton; Stork, Andres; van Veldhuizen, Albertus; van Beek, Teris A.; de Groot, Aede; van Loon, Joop J. A.; Schoonhoven, Louis M.
CORPORATE SOURCE: Dep. Org. Chem., Wageningen Agric. Univ., Wageningen, 6703 HB, Neth.
SOURCE: Journal of Natural Products (1994), 57(1), 90-9
CODEN: JNPRDF; ISSN: 0163-3864
DOCUMENT TYPE: Journal
LANGUAGE: English
ED Entered STN: 16 Apr 1994
GI



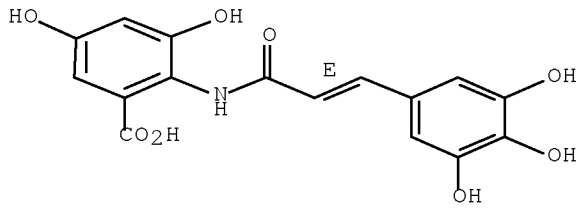
I

AB The large white butterfly, P. brassicae, a herbivorous pest of crucifers, produces egg-associated chemical markers that inhibit its oviposition. The identification of the marker compds. is reported herein. Separation by reversed-phase HPLC demonstrated the presence of 3 active substances, which were identified as trans-2[3-(3,4,5-trihydroxyphenylpropenoyl)amino]- 3,5-dihydroxybenzoic acid (I, R = OH), trans-2-[3-(3,4-dihydroxy-5-β-glucopyranosylphenylpropenoyl)amino]- 3,5-dihydroxybenzoic acid (I, R = O-β-glucopyranosyl) and trans-2-[3-(3,4-dihydroxyphenylpropenoyl)amino]-3,5-dihydroxybenzoic acid (I R = H), using mass and NMR spectroscopy and chemical synthesis. I have not been reported from the animal kingdom before. I are produced by 2 related Pieris species. This is the 1st report of taxon-specific compds. affecting oviposition behavior. The availability, stability, and inhibitory action on colonization of cabbage plants by butterflies make application of these compds. in the protection of cabbage crops feasible and comparable with other environmentally safe crop protection strategies.

IT 153698-89-6P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation and isolation of, from egg of large white butterfly,

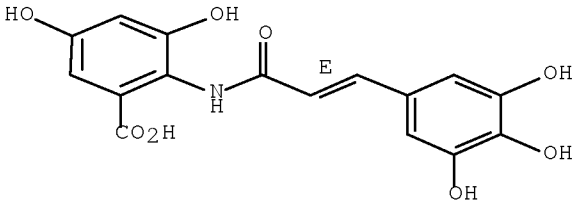
oviposition deterrence in relation to)
RN 153698-89-6 HCAPLUS
CN Benzoic acid, 3,5-dihydroxy-2-[[1-oxo-3-(3,4,5-trihydroxyphenyl)-2-propenyl]amino]-, (E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.

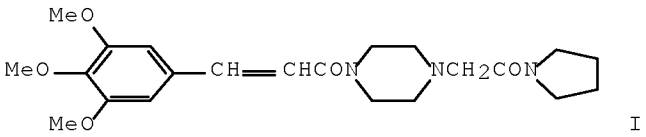


L60 ANSWER 5 OF 7 HCAPLUS COPYRIGHT 2009 ACS on STN
ACCESSION NUMBER: 1994:695034 HCAPLUS Full-text
DOCUMENT NUMBER: 121:295034
ORIGINAL REFERENCE NO.: 121:53839a,53842a
TITLE: Chemical ecology as a lead for the development of environmentally-safe insect control agents.
AUTHOR(S): van Beek, T. A.; Blaakmeer, A.; Griepink, F. C.; van Loon, J. J. A.; Visser, J. H.; de Groot, Ae.
CORPORATE SOURCE: Department of Organic Chemistry, Wageningen Agricultural University, Wageningen, 6703 HB, Neth.
SOURCE: Special Publication - Royal Society of Chemistry (1994), 147(Advances in the Chemistry of Insect Control III), 52-69
CODEN: SROCDO; ISSN: 0260-6291
DOCUMENT TYPE: Journal
LANGUAGE: English
ED Entered STN: 24 Dec 1994
AB Miriamide, 5-dehydroxymiriamide and miriamide 5-glucoside were isolated as oviposition-deterring, i.e. host-marking pheromones, from Pieris brassicae eggs. The synthesis of miriamide is outlined. Gas-chromatog. headspace anal. indicated the presence of unidentified cabbage leaf components, attractive to the parasitic wasp Cotesia glomerata. E3,Z7-14:Ac was identified and synthesized as the sex attractant pheromone of Symmetrischema tangolias females. Semiochems. of cabbage and associated insects, are discussed.
IT 153698-89-6, Miriamide
RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BOC (Biological occurrence); BSU (Biological study, unclassified); BIOL (Biological study); OCCU (Occurrence); USES (Uses)
(host-marking Pieris brassicae pheromones)
RN 153698-89-6 HCAPLUS
CN Benzoic acid, 3,5-dihydroxy-2-[[1-oxo-3-(3,4,5-trihydroxyphenyl)-2-propenyl]amino]-, (E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.

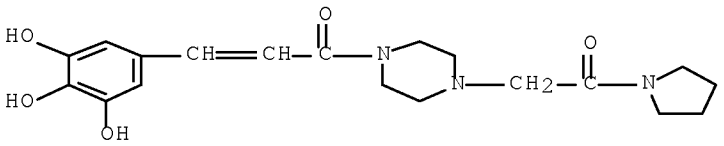


L60 ANSWER 6 OF 7 HCAPLUS COPYRIGHT 2009 ACS on STN
ACCESSION NUMBER: 1977:25788 HCAPLUS Full-text
DOCUMENT NUMBER: 86:25788
ORIGINAL REFERENCE NO.: 86:4047a,4050a
TITLE: The metabolic fate of the coronary vasodilator 4-(3,4,5-trimethoxycinnamoyl)-1-(N-pyrrolidino-carbonylmethyl)piperazine (cinepazide) in the rat, dog and man
AUTHOR(S): Cameron, B. D.; Chasseaud, L. F.; Hawkins, D. R.; Taylor, T.
CORPORATE SOURCE: Dep. Metab. Pharmacokinetics, Huntingdon Res. Cent., Huntingdon, UK
SOURCE: Xenobiotica (1976), 6(7), 441-55
CODEN: XENOBH; ISSN: 0049-8254
DOCUMENT TYPE: Journal
LANGUAGE: English
ED Entered STN: 12 May 1984
GI



I

AB Of the total cinepazide (I) [23887-46-9] (4 mg/kg, orally) administered to rats, dogs, and man, 36.7, 58.3, and 33.4% resp. was excreted in the urine and 68.6, 61.3, and 38.1% resp. was excreted in the feces in 5 days. Rats, man, and dogs excreted 17.2, 15.9, and 3.6% resp. as unchanged I. Rat bile and urine contained 4.3 and 9.8% dose resp. as glucuronides of the mono-O-demethylated compds. whereas dog and human urine contained 9.0 and 2.6% resp. of these metabolites. The corresponding pyrrolidone accounted for 2.5, 5.5, and 5.1% resp. in rat, dog, and human urine. Complete O-demethylation also occurred since 22.1% dose 4-(3,4,5-trihydroxycinnamoyl)-1-(N-pyrrolidinocarbonylmethyl)piperazine [61169-78-6] was present in rat feces.
IT 61169-78-6
RL: BIOL (Biological study)
(as cinepazide metabolite)
RN 61169-78-6 HCAPLUS
CN 2-Propen-1-one, 1-[4-[2-oxo-2-(1-pyrrolidinyl)ethyl]-1-piperazinyl]-3-(3,4,5-trihydroxyphenyl)- (CA INDEX NAME)



L60 ANSWER 7 OF 7 WPIX COPYRIGHT 2009 THOMSON REUTERS on STN
ACCESSION NUMBER: 2005-650963 [67] WPIX
DOC. NO. CPI: C2005-196408 [67]
TITLE: New phenyl derivatives useful to treat e.g. acute respiratory distress syndrome, Crohn's disease, septic shock, chronic inflammatory diseases such as psoriasis
DERWENT CLASS: B04; B05
INVENTOR: AYDT E M; KRANICH R; AYDT E
PATENT ASSIGNEE: (REVO-N) REVOTAR BIOPHARMACEUTICALS AG
COUNTRY COUNT: 108

PATENT INFO ABBR.:

PATENT NO	KIND	DATE	WEEK	LA	PG	MAIN IPC
EP 1577289	A1	20050921	(200567)*	EN	43[0]	
WO 2005090284	A1	20050929	(200567)	EN		
EP 1732882	A1	20061220	(200702)	EN		
JP 2007529462	W	20071025	(200780)	JA	77	
US 20080249107	A1	20081009	(200868)	EN		

APPLICATION DETAILS:

PATENT NO	KIND	APPLICATION	DATE
EP 1577289 A1		EP 2004-6461	20040318
EP 1732882 A1		EP 2005-716209	20050318
WO 2005090284 A1		WO 2005-EP2920	20050318
JP 2007529462 W		JP 2007-503297	20050318
EP 1732882 A1	PCT Application	WO 2005-EP2920	20050318
JP 2007529462 W	PCT Application	WO 2005-EP2920	20050318
US 20080249107 A1	PCT Application	WO 2005-EP2920	20050318
US 20080249107 A1		US 2007-593259	20070726

FILING DETAILS:

PATENT NO	KIND		PATENT NO	
EP 1732882	A1	Based on	WO 2005090284	A
JP 2007529462	W	Based on	WO 2005090284	A

PRIORITY APPLN. INFO: EP 2004-6461 20040318
AB EP 1577289 A1 UPAB: 20051223
NOVELTY - Phenyl derivatives (I) and their salts, esters, amides or prodrugs are new.

DETAILED DESCRIPTION - Phenyl derivatives of formula (I) and their salts, esters, amides or prodrugs are new.

X = e.g. -(E)g-(C=O)-NH-CH2-(CH2)n-(C=O)-, -(E)g-(O=S=O)-NH-CH2-(CH2)n-G-(C=O)-, -(CH)n-G-(C=O)-, -C(R4)=CH-(C=O)-, R4-C(-)=CH-(C=O)-, -C?=(C=O)-, (E)g-(CH2)p-G-, -G-(C=O)-(CH2)q-, -(E)g-(c=O)(CH2)n-G-(C=O)-, -(CH2)r-T1-CH2-CH2-T2-(CH2)n-, -(E)g(C=O)-(CH2)r-T1-CH2-CH2-T2-(CH2)n-(C=O)-, -(E)g(C=O)-(CH2)r-T1-CH2-CH2-T2-(CH2)n- or heterocyclic compounds of formulae (A1-A5);

E = -NH-, -(CH2-)kNH-;

G = -(NH-)m;

g = 0-1;

h, k = 1-3;

m = 0-1;

n = 1-8;

R4 = H, CH3 or CH2CH3;

R5 = H, NO2, CF3, F, Cl, Br, I, CN or CH3;

K = -S- or -O-;

p =2-8;

q = 1-9;

r = 1-3;

T1, T2 = E, K or N-alkyl;

Y = heterocyclic compounds of formulae (1-5);

V = -(NH-)s-;

s = 0-1;

R6 = CO2H, CO2alkyl, CO2aryl, CO2NH2, CO2aralkyl, SO3H, SO2NH2, PO(OH)2, 1-H-tetrazolyl-, CHO, COCH3, CH2OH, NH2, NHalkyl, N(alkyl)alkyl', OCH3 or CH2OCH3, SH;

R7 = H, CH3, CH2CH3, CF3, F, Cl, Br, I, CN or NO2;

R9 = H, NO2, CF3, F, Cl. Br, I, CN, CH3, OCH3 or SH;

t = 0-2;

W1 = -(CH2-)v, cis-CH=CH- or trans-CH=CH-;

v = 0-2; and

Z = herterocylic compounds of formulae (a-d).

Provided that if:

(1)R2 = OH and R3 = H then R1 = H, CN, NO2, CF3, F, Cl, Br, I or CH3;

(2)R3 = OH and R2 = H then R1 = H, CN, NO2, CF3, F, Cl, Br, I, CH3, Et, n-Pr, i-Pr, n-Bu, i-Bu, t-Bu, phenyl, thienyl, furyl, thiazolyl; and

(3) R3 = OH and R1 = H then R2 = H, CN, NO2, CF3, F, Cl, Br, I, CH3, Et, n-Pr, i-Pr, n-Bu, t-Bu, phenyl, thienyl, furyl, thiazolyl.

ACTIVITY - Antiinflammatory; Respiratory-Gen.; Antibacterial; Immunosuppressive; Antipsoriatic; Dermatological; Antiarthritic; Antirheumatic; Vasotropic; Vulnerary; Neuroprotective; Antiasthmatic; Gastrointestinal-Gen.

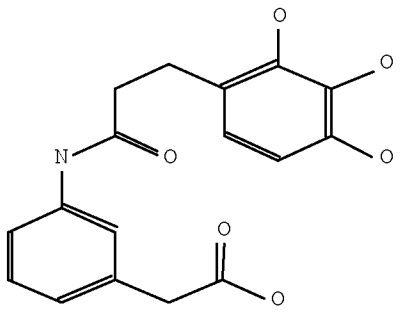
MECHANISM OF ACTION - Binding of P-selectin to sLex or slea and tyrosinesulfate residue inhibitor; Binding of L-selectin to sLex or slea and tyrosinesulfate residue inhibitor; Binding of E-selectin to sLex or slea and tyrosinesulfate residue inhibitor.

The ability of (I) to inhibit P-selectin was tested in biological assays. The results showed that 4-methyl-3-(3-(3,4,5-trihydroxy-phenyl)-propionylamino)-benzoic acid exhibit a median inhibitory concentration value of 1.7 M.

USE - (I) is useful to inhibit binding of P-selectin, L-selectin or E-selectin to sLex or slea and tyrosinesulfate residues (claimed). (I) are also useful to treat diseases relating to inflammation, cell-cell recognition and adhesion e.g. acute respiratory distress syndrome (ARDS), Crohn's disease, septic shock, chronic inflammatory diseases such as psoriasis, atopic dermatitis, rheumatoid arthritis and reperfusion tissue injury which occurs following heart attacks, strokes, atherosclerosis, organ transplants, traumatic shock, multi-organ failure, autoimmune diseases (multiple sclerosis, asthma or inflammatory bowel disease).

AN.S DCR-1139093

CN.S {3-[3-(2,3,4-Trihydroxy-phenyl)-propionylamino]-phenyl}-acetic acid
SDCN RAJ60N



Search History

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                934176-39-3/BI)
L3           10 SEA SPE=ON  ABB=ON  PLU=ON  L2 AND S/ELS
L4            6 SEA SPE=ON  ABB=ON  PLU=ON  L3 AND O>=5
L5            4 SEA SPE=ON  ABB=ON  PLU=ON  L2 AND NR>=4
L6         2131 SEA SPE=ON  ABB=ON  PLU=ON  L*** AND PHENYL/CNS
L7         6021 SEA SPE=ON  ABB=ON  PLU=ON  L*** AND ?PHENYL?/CNS
L8         6026 SEA SPE=ON  ABB=ON  PLU=ON  L*** AND ?PHENYL?/CNS
L9         2826 SEA SPE=ON  ABB=ON  PLU=ON  L8 AND ?AMINO?/CNS
L10         467 SEA SPE=ON  ABB=ON  PLU=ON  L9 AND NR>=4
L11          10 SEA SPE=ON  ABB=ON  PLU=ON  L10 AND ?TRIHYDROXY?/CNS
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L12           1 SEA SPE=ON  ABB=ON  PLU=ON  "2-THIOPHENEACETIC ACID, 5-(2-(((3'
                ,4',5'-TRIHYDROXY(1,1'-BIPHENYL)-3-YL)CARBONYL)AMINO)PHENYL)-"/
                CN


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L13           1 SEA SPE=ON  ABB=ON  PLU=ON  L12
                D IBIB ED ABS HITSTR

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L15             STRUCTURE UPLOADED
L16           0 SEA SSS SAM L15
L17           4 SEA SSS FUL L15

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L20           1 SEA SPE=ON  ABB=ON  PLU=ON  L17

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L21           1 SEA SPE=ON  ABB=ON  PLU=ON  L17

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L22           0 SEA SSS SAM L15
L23           2 SEA SSS FUL L15
L24           1 SEA SPE=ON  ABB=ON  PLU=ON  L23/DCR

     FILE 'WPIX, USPATFULL' ENTERED AT 09:58:52 ON 16 APR 2009
L25           2 DUP REM L24 L21 (0 DUPLICATES REMOVED)

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L26             STRUCTURE UPLOADED
L27          41 SEA SSS SAM L26
L28             STRUCTURE UPLOADED
L29          50 SEA SSS SAM L28
L30           0 SEA SPE=ON  ABB=ON  PLU=ON  L29 AND L2
L31       18965 SEA SSS FUL L28
L32          18 SEA SPE=ON  ABB=ON  PLU=ON  L31 AND L2
L33             STRUCTURE UPLOADED
L34             STRUCTURE UPLOADED
L35           2 SEA SUB=L31 SSS SAM L34
L36          24 SEA SUB=L31 SSS FUL L34
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L39          24 SEA SPE=ON  ABB=ON  PLU=ON  KRANICH R?/AU
L40          25 SEA SPE=ON  ABB=ON  PLU=ON  AYDT E?/AU
L41           2 SEA SPE=ON  ABB=ON  PLU=ON  (L39 OR L40) AND L38
L42           8 SEA SPE=ON  ABB=ON  PLU=ON  L38 AND (PRY<=2007 OR AY<=2007 OR
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L43           0 SEA SSS SAM L34
L44           0 SEA SSS FUL L34

     FILE 'BEILSTEIN' ENTERED AT 10:53:30 ON 16 APR 2009
L45           0 SEA SPE=ON  ABB=ON  PLU=ON  L36
L46           0 SEA SPE=ON  ABB=ON  PLU=ON  L36

     FILE 'MARPAT' ENTERED AT 10:53:50 ON 16 APR 2009
L47          14 SEA SSS SAM L34

     FILE 'REGISTRY' ENTERED AT 10:56:16 ON 16 APR 2009
L48             STRUCTURE UPLOADED
L49           0 SEA SSS SAM L48
L50          12 SEA SSS FUL L48

     FILE 'HCAPLUS' ENTERED AT 10:58:54 ON 16 APR 2009
L51           2 SEA SPE=ON  ABB=ON  PLU=ON  L50
L52           2 SEA SPE=ON  ABB=ON  PLU=ON  (L39 OR L40) AND L51

     FILE 'WPIX' ENTERED AT 10:59:20 ON 16 APR 2009
L53           0 SEA SSS SAM L48
L54           1 SEA SSS FUL L48
L55           1 SEA SPE=ON  ABB=ON  PLU=ON  L54/DCR
L56           1 SEA SPE=ON  ABB=ON  PLU=ON  (L39 OR L40) AND L55
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     FILE 'MARPAT' ENTERED AT 12:38:38 ON 16 APR 2009
L57             STRUCTURE UPLOADED

     FILE 'HCAPLUS, WPIX' ENTERED AT 12:42:30 ON 16 APR 2009
L58           2 DUP REM L41 L52 L56 (3 DUPLICATES REMOVED)

     FILE 'HCAPLUS' ENTERED AT 12:42:51 ON 16 APR 2009
L59           6 SEA SPE=ON  ABB=ON  PLU=ON  L42 NOT (L41 OR L52)

     FILE 'HCAPLUS, WPIX' ENTERED AT 12:43:23 ON 16 APR 2009
L60           7 DUP REM L59 L55 (0 DUPLICATES REMOVED)
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